TEJUS
CONSULTANTS

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Name of Work	:	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s N LOKANATH REDDY
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Date of Testing	:	03-08-2021
Techinical Reference	:	IS 1786:2008, IS1608:2005, IS1599:1985(Reaffirmed2006)
Sample Identification	:	10mm.TMT Fe500 Bars

Sl. No.	Nominal size dia in mm)	Mass per metre (kg/m)	TENSILE STRENGTH		
			0.20% proof stress/yield stress N/mm2	Tensile strength N/mm2 '	Elongation,percent on gauge length
1	10	0.618	521	562	17

Note:

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3. Any Query regarding the report must be reported reported within 15 days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Consultant's Representative

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEJUS
CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC
Location/Source	Raghavendra circle in K R Puram	Date of Sampling	04-08-2021
Period of Soaking	24 hours	Date of Testing	05-08-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	666	636	645	
B	Weight of oven - dry sample gm.	658	628	637	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1693	1674	1680	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.653	2.650	2.654	**2.652**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.216	1.274	1.256	**1.249**

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Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	PCC
Sample Location	Raghavendra circle in K R Puram	Date of Sampling	05-08-2021
		Date of Testing	05-08-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	205	205	6.83	93.17	90 - 100
2.36 mm	316	521	17.37	82.63	75 - 100
1.18 mm	412	933	31.10	68.90	55 - 90
0.600 mm	495	1428	47.60	52.40	35 -59
0.300 mm	765	2193	73.10	26.90	8-30
0.150 mm	625	2818	93.93	6.07	0 - 10
Pan	182	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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Kodigehalli Sub Division
BBMP, Bangalore

TEJUS
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Test Report on Cement	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	05-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	110 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	464 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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Assistant Executive Engineer
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TEST REPORT	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Clients	Bruhat Bangalore Mahanagar Palike
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	Gangamma Layout	**Date of Sampling**	05-08-2021
		Date of Testing	05-08-2021

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	80	80	2.67	97.33	95-100
20.00mm	1418	1498	49.93	50.07	30-70
10.00mm	966	2464	82.13	17.87	10-35
4.75mm	455	2919	97.30	2.70	0-5
Pan	81	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Clients	Bruhat Bangalore Mahanagar Palike
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	Gangamma Layout	**Date of Sampling**	05-08-2021
		Date of Testing	05-08-2021

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	80	80	2.67	97.33	95-100
20.00mm	1418	1498	49.93	50.07	30-70
10.00mm	966	2464	82.13	17.87	10-35
4.75mm	455	2919	97.30	2.70	0-5
Pan	81	3000	100.00	0.00	

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	**Proposed Use**	concrete
Location/Source	At Plant	**Date of Sampling**	06-08-2021
Period of Soaking	24 hours	**Date of Testing**	07-08-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	652	672	665	
B	Weight of oven - dry sample gm.	644	664	656	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1685	1697	1694	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.661	2.656	2.667	**2.661**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.242	1.205	1.372	**1.273**

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Kodigehalli Sub Division
BBMP, Bangalore

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	**Proposed Use**	PCC
Location/Source	T C Palya Main road in K R Puram	**Date of Sampling**	06-08-2021
Period of Soaking	24 hours	**Date of Testing**	07-08-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	668	640	655	
B	Weight of oven - dry sample gm.	659	631	646	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1695	1678	1687	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.657	2.662	2.658	**2.659**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.366	1.426	1.393	**1.395**

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Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	07-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	96Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	07-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
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	b) Final Setting Time	IS-4031 (Part-5)	485 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
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BBMP, Bangalore

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants				
Contractor	M/s N LOKANATH REDDY				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	At Plant		Date of Sampling	07-08-2021	
			Date of Testing	07-08-2021	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	515	515	5.15	94.85	90-100
10.0	4520	5035	50.35	49.65	40-85
4.75	4360	9395	93.95	6.05	0-10
Pan	605	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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A.N.D

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BBMP, Bangalore

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Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants				
Contractor	M/s N LOKANATH REDDY				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	At Plant		**Date of Sampling**	07-08-2021	
			Date of Testing	07-08-2021	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	265	265	2.65	97.35	**95 - 100**
10.00 mm	4784	5049	50.49	49.51	**25 - 55**
4.75 mm	4320	9369	93.69	6.31	**0 - 10**
Pan	631	10000			
Remarks :	✓ Satisfactory / Not Satisfactory				

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	concrete
Sample Location	At Plant	Date of Sampling	07-08-2021
		Date of Testing	07-08-2021

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	307	517	17.23	82.77	75 - 100
1.18 mm	434	951	31.70	68.30	55 - 90
0.600 mm	484	1435	47.83	52.17	35 -59
0.300 mm	710	2145	71.50	28.50	8-30
0.150 mm	630	2775	92.50	7.50	0 - 10
Pan	225	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Clients	Bruhat Bangalore Mahanagar Palike
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	Gangamma Layout	**Date of Sampling**	07-08-2021
		Date of Testing	07-08-2021

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	80	80	2.67	97.33	95-100
20.00mm	1418	1498	49.93	50.07	30-70
10.00mm	966	2464	82.13	17.87	10-35
4.75mm	455	2919	97.30	2.70	0-5
Pan	81	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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Clients	Bruhat Bangalore Mahanagar Palike				
Consultants	Tejus Consultants				
Contractor	M/s N LOKANATH REDDY				
Total Weight in gm:	3000				
SIEVE ANALYSIS					
Type of Material	40 mm down size			**Proposed Use**	PCC
Sample Location	Gangamma Layout			**Date of Sampling**	07-08-2021
				Date of Testing	07-08-2021

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	80	80	2.67	97.33	95-100
20.00mm	1418	1498	49.93	50.07	30-70
10.00mm	966	2464	82.13	17.87	10-35
4.75mm	455	2919	97.30	2.70	0-5
Pan	81	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Tejus Consultants
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	07-08-2021
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants				
Contractor	M/s N LOKANATH REDDY				
SIEVE ANALYSIS					
Total Weight:	3000 gms				
Type of Material	**Fine aggregate (M sand)**		**Proposed Use**	PCC	
Sample Location	T C Palya Main road in K R Puram		**Date of Sampling**	07-08-2021	
			Date of Testing	07-08-2021	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	205	205	6.83	93.17	**90 - 100**
2.36 mm	310	515	17.17	82.83	**75 - 100**
1.18 mm	415	930	31.00	69.00	**55 - 90**
0.600 mm	492	1422	47.40	52.60	**35 -59**
0.300 mm	754	2176	72.53	27.47	**8-30**
0.150 mm	620	2796	93.20	6.80	**0 - 10**
Pan	204	3000			**-**
Remarks :		✓ Satisfactory / Not Satisfactory			

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants
Contractor	M/s N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (M sand)	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	08-08-2021
Period of Soaking	24 hours	Date of Testing	09-08-2021

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	650	675	662	
B	Weight of oven - dry sample gm.	641	666	653	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1684	1700	1692	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.660	2.664	2.665	**2.663**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.404	1.351	1.378	**1.378**

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Kodigehalli Sub Division
BBMP, Bangalore

Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants				
Contractor	M/s N LOKANATH REDDY				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	At Plant		**Date of Sampling**	09-08-2021	
			Date of Testing	09-08-2021	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	100
12.5	512	512	5.12	94.88	90-100
10.0	4492	5004	50.04	49.96	40-85
4.75	4564	9568	95.68	4.32	0-10
Pan	432	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants				
Contractor	M/s N LOKANATH REDDY				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	At Plant		**Date of Sampling**	09-08-2021	
			Date of Testing	09-08-2021	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	**100**
20.00 mm	270	270	2.70	97.30	**95 - 100**
10.00 mm	4788	5058	50.58	49.42	**25 - 55**
4.75 mm	4325	9383	93.83	6.17	**0 - 10**
Pan	617	10000			
Remarks :			✓ Satisfactory / Not Satisfactory		

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